From: Tim Osborn - NOAA Federal [tim.osborn@noaa.gov]

Sent: 9/25/2013 4:15:07 PM

To: Mary Punch [mpunch@slld.org]; Windell Curole South Lafourche Levee District [wcurole@slld.org]

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[Keeler.Barbara@epa.gov]; Crawford, Brad [crawford.brad@epa.gov]

Subject: Windell Curole sent you a video: "Levee protective marsh habitat restoration in south Lafourche Parish, Louisiana"

This a great project for creation on of wetlands habitat, affordability, protection of the flood protection levees and communities and the ability to maintain this project into the long term.

Tim

From: Mary Punch <mpunch@slld.org>

To: "Tim Osborn (<u>tim.osborn@noaa.gov</u>)" < <u>tim.osborn@noaa.gov</u>>

Cc: Windell Curole <wcurole@slld.org>

Subject: FW: Windell Curole sent you a video: "Levee protective marsh restoration in

south Lafourche Parish, Louisiana"

I've attached a split Google shot of before and after that goes along with this video. Mary

From: YouTube Service [mailto:noreply@youtube.com] **Sent:** Wednesday, September 25, 2013 10:45 AM

To: Mary Punch

Subject: Windell Curole sent you a video: "Levee protective marsh restoration in south Lafourche Parish,

Louisiana"





Levee protective marsh restoration in south Lafourche Parish, Louisiana

by George Howard

Here is a video fly-by I made recently of just completed marsh restoration project near Galliano, Louisiana, in south Lafourche Parish. The project was federal and state funded under the Coastal Impact Assistance Program (CIAP).

Historically, a largely unbroken carpet of Spartina marsh existed at the "toe" of levees and acted as a "speed bump," protecting the earthen mounds from being battered by unimpeded storm waves. Today, the marsh has degraded to the point where it no longer provides an adequate barrier and the levees are subject to storm waves for which they are not engineered or constructed.

The stakes in this area if a levee was "crevassed" in a storm due to marsh degradation? A catastrophic flood leaving thousands of residents of Lafourche Parish homeless, and potentially threatening the critical infrastructure in Parish which transports fully 1/4 of the nation's oil and gas.

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